APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,442	04/07/2004	Mikko Makela	915-007.084	7157

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EXAMINER
TANK, ANDREW L

ART UNIT	PAPER NUMBER
2175	

MAIL DATE	DELIVERY MODE
05/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>02 March 2009</u>.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,14,15 and 25-41* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) *1,14,15 and 25-41* is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☐ All   b)☐ Some * c)☐ None of:
       1.☐ Certified copies of the priority documents have been received.
       2.☐ Certified copies of the priority documents have been received in Application No. _____.
       3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date <u>03/23/2009</u>.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

1.   The following action is in response to the Request for Continued Examination (RCE)

filed under 37 CFR 1.53(d) for the instant application on March 02, 2009. Applicants have

properly set forth the RCE, which has been entered into the application. Accordingly, the

amendment submitted March 02, 2009 has been entered and an examination on the merits

follows herewith.

2.   Claims 1, 14, and 15 have been directly amended. Claims 25-41 have been newly added.

Claims 2-8, 10-13, and 16-24 have been canceled. **Claims 1, 14, 15 and 25-41** are pending and

have been considered below.

Claim Rejections - 35 USC § 102

> (a) the invention was known or used by others in this country, or patented or described in a printed publication in this
> or a foreign country, before the invention thereof by the applicant for a patent.

3.   **Claims 1-7 and 10-24** are rejected under 35 U.S.C. 102(a) as being anticipated over

Chen, Y., Ma, W. J., and Zhang, H. J. "Detecting Web Page Structure for Adaptive Viewing on

Small Form Factor Devices," *Proceedings of the 12th international conference on World Wide*

Web (WWW 2003), May 20-24, 2003, Budapest, Hungary, previously presented as "Chen".

Claims 1, 14, 15, 32, 36, and 37:

With regards to claim 1, Chen discloses a method comprising:

        at least partially dividing at least one page into a plurality of areas (page 2, paragraph 4:

"From the extracted structure, different content blocks are identified.");

presenting said plurality of areas in a first representation (page 6 paragraph 1: "the user will first receive an index page", paragraph 11: "We generate a thumbnail image for the original web page, and mark the content blocks with different colors.");

making at least one area of said plurality of areas an active area (paragraph 11: "We generate a thumbnail image for the original web page, and mark the content blocks with different colors."); and

in response to a user operation on said at least one active area, presenting at least one of said at least one of said at least one active areas in a second representation (page 6 paragraph 1: "the user to access each sub-page through the hyperlinks in the index page", page 8, Fig. 18(a) Page Splitting),

wherein said at least partially divided at least one page into a plurality of areas comprises element-wise rendering elements contained in said at least one page to obtain a rendered object with a maximum height and a maximum width, checking if a size of said rendered object exceeds a threshold and forming an area from said rendered object if said threshold is exceeded (page 3 3.2.1 Selecting Nodes: "We try to classify a node into one of the header, footer, left side bar and right side bar blocks. If it belongs to non of the above, then we check if it is small enough to put into the body block. A pair of thresholds (one for width and the other for height) is used to determine whether a node is small enough. If the node exceeds the thresholds, it will be split further. The above process is iterated until all the nodes are classified into the five high-level blocks."), and further comprises checking if at least one edge of said formed area is not straight, and forming a smaller area from said rendered object if at least one edge is not straight

(pages 3-4 3.2.2 Detection of Header and Footer: Fig. 6(a) areas 1 and 2 do not form a straight edge, both cannot belong to header, a smaller area 2 is formed to belong to header region).

With regards to claims 14, 15, 32, 36 and 37, each recite limitations similar to claim 1 and are rejected for similar reasons.

Claims 25, 29, 33 and 39:

With regards to claim 25, Chen discloses the method as in claim 1 above, and further disclose wherein said at least partially dividing at least one page into a plurality of areas comprises checking if a formed area can be combined with a previously formed area, and combining said formed area and said previously formed area if they can be combined (Fig. 12: detect patterns - merge). Claims 29, 33, and 39 recite limitations similar to claim 25 and are rejected for similar reasons.

Claims 26, 30, 34 and 40:

With regards to claim 26, Chen discloses the method as in claim 25 wherein formed areas may be combined, and further discloses wherein areas are combined if they have a similar width, are horizontally similarly positioned and if their combined size does not exceed a threshold (Page 5 paragraph 5: "A similarity measure based on text font, size, color and tag properties is applied to cluster the atomic nodes into groups...Among the patterns with the highest frequency, we select the longest one and group the pattern using a new symbol if its length is larger than 1. If the length is equal to 1, we try to merge it with the adjacent symbols."). Claims 30, 34 and 40 recite limitations similar to claim 26 and are rejected for similar reasons.

Claims 27, 31, 35 and 41:

With regards to claim 27, Chen discloses the method as in claim 1 above, and further discloses wherein said at least partially dividing at least one page into a plurality of areas comprises checking if a formed area has to be re-sectioned, and re-sectioning said formed area if said formed area has to be re-sectioned, wherein said re-sectioning comprises forming a new area which is smaller than the presently formed area (pages 3-4 3.2.2 Detection of Header and Footer: Fig. 6(a) areas 1 and 2 do not form a straight edge, both cannot belong to header, a smaller area 2 is formed to belong to header region). Claims 31, 35 and 41 disclose limitations similar to claim 27 and are rejected for similar reasons.

Claim 28:

With regards to claim 28, Chen discloses the apparatus as in claim 15 above, and further discloses wherein apparatus is a mobile phone (page 1 paragraph 1: "mobile device", paragraph 3: "smart phones").

Claim 38:

With regards to claim 38, Chen discloses the apparatus as in claim 37 above, and further discloses wherein apparatus is a content optimization server (page 7 paragraph 4: "conducted on a personal computer with 1.7GHz CPU and 512M main memory").

Response to Arguments

4.   Applicant's arguments filed March 2, 2009, have been fully considered but they are not persuasive.

Applicant argues, on page 11-12, that Chen does not disclose the amended feature of element-wise rendering elements contained in said at least one page to obtain a rendered object with max

height and width, comparing this size to see if it exceeds a threshold and forming an area if the threshold is exceeded. This is clearly shown in the Selecting Nodes section, wherein node areas are formed by placing them into 4 categories (header, footer, left side and right side bar), but if they area is too small it is checked to be placed into the body using thresholds, i.e. if the area exceeds this body threshold, it should belong to one of the previous four blocks.

Applicant argues, on page 12, that Chen does not disclose the amended feature of checking if at least one edge of said formed area is not straight, and forming a smaller area from said rendered object if at least one edge is not straight. However, this is clearly shown when trying to determine areas for headers. Two areas (forming a larger area for scrutiny) appear to form an uneven line (not straight), thereby preventing their classification into the header region, requiring a smaller area be formed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Tank whose telephone number is 571-270-1692. The examiner can normally be reached on Mon - Thur 0830-1700 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on 571-272-4088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. T./
Examiner, Art Unit 2175
May 19, 2009

/WILLIAM L. BASHORE/
Supervisory Patent Examiner, Art Unit 2175